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PTO/SB/05 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

TI-36575

First Inventor

Kazuaki An

Title

High Reliability Solder joint with Multilayer
Structure

Express Mail Label No.

ER 446521600 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

Mail Stop Patent Application
P.O. Box 1450
Alexandria, VA 22313-14501. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.3. ☒ Specification (preferred arrangement set forth below) [Total Pages **15**]
- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table,
or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure4. ☒ Drawing(s) (35 U.S.C. 113) [Total **4**]
Sheets5. Oath or Declaration [Total ☐]
Pages

- a.
- ☐
- Newly Executed (original or copy)
-
- b.
- ☐
- Copy from a prior application (37 CFR 1.63(d))
-
- (for continuation/divisional with Box 18 completed)

i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).6. ☐ Application Data Sheet. See 37 CFR 1.767. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); orii. ☐ paperc. ☐ Statements verifying identity of above copies**ACCOMPANYING APPLICATION PARTS**9. ☐ Assignment Papers (cover sheet & documents(s))10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of
Attorney11. ☐ English Translation Document (if applicable)12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
Citations13. ☐ Preliminary Amendment14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)16. ☐ Request and Certification under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35
or its equivalent.17. ☐ Other:18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,
or in an Application Data Sheet under 37 CFR 1.76:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: _____

Prior application information: Examiner _____

Group / Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a
part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a
portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label

23494

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

NAME

Texas Instruments Incorporated

ADDRESS

CITY

STATE

ZIP CODE

COUNTRY

TELEPHONE

Michael Skrehot 972-917-4371

FAX

(972)917-4418

Name (Print/Type)

Michael T. Konczal

Registration No. (Attorney/Agent)

45,475

Signature

Date

11/12/03

22141 U.S. PTO
10/706147

111203

DATE: **FEE TRANSMITTAL
for FY 2004****Complete If Known****TOTAL AMOUNT OF PAYMENT**1,090.00

Application Number

Filing Date

First Named Inventor

Kazuaki Ano

Examiner Name

Group Art Unit

Attorney Docket No.

TI-36575

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit
Account
Number

20-0668

Deposit
Account
Name

Texas Instruments Incorporated

- ☒
- Charge Any Additional Fee Required
-
- Under 37 CFR 1.16 and 1.17

- ☐
- Applicant claims small entity status.
-
- See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:**

- ☐
- Check
- ☐
- Credit
-
- card
- ☐
- Money
-
- Order
- ☐
- Other

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
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1051	130	2051	65	Surcharge - late filing fee of oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	N/A	130	Non-English specification	
1812	2,520	N/A	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	N/A	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	N/A	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	N/A	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	N/A	130	Petitions to the Commissioner	
1807	50	N/A	50	Processing fee for provisional applications	
1806	180	N/A	180	Submission of information Disclosure Stmt	
8021	40	N/A	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	N/A	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) \$**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	\$770
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					\$ 770

2. EXTRA CLAIM FEES

Extra Claims		Fee from below		Fee Paid	
Total Claims	33	-20**=	13	X	18 = 234
Independent Claims	4	-3**=	1	X	86 = 86
Multiple Dependent			0	=	0

Large Entity Fee Code	Fee (\$)	Small Entity Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 320

**or number previously paid, if greater; For Reissue, see above

SUBMITTED BY

Name (Print/Type)

Michael T. Konczal

Signature

*Michael T. Konczal*Registration
No.
(Attorney/Agent)

45,475

Complete (if applicable)

Telephone

214-228-3641

Date

11/12/03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

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PRACTICE LIMITED TO PATENTS, TRADEMARKS,
AND
U.S. AND FOREIGN INTELLECTUAL PROPERTY MATTERS

November 12, 2003

Via Express Mail: ER 446521600 US

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

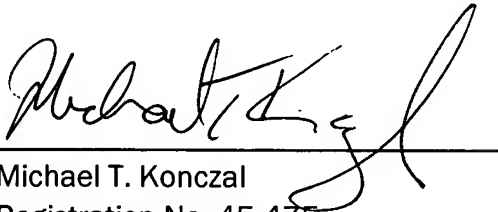
Re: Utility Patent Application For:
High Reliability Solder Joint with Multilayer Structure
Attorney Docket: TI-36575

Dear Sir:

Enclosed for filing please find the following items relating to the above-identified patent application:

- (1) Utility Patent Application Transmittal;
- (2) Specification;
- (3) 4 Sheets of Formal Drawings;
- (3) Fee Authorization/Transmittal Form;
- (4) Declaration and Power of Attorney;
- (5) Assignment; and
- (6) Postcards (2).

Please charge **Deposit Account No. 20-0668** in the amount of the total fees set forth. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to **Deposit Account No. 20-0668**.


Michael T. Konczal
Registration No. 45,475

c: Cindy Dees, Texas Instruments Incorporated